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Mazdoor Kisan Shakti Sangathan

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“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

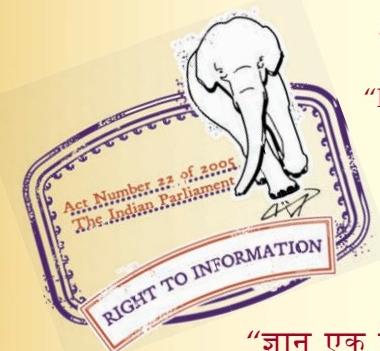
“Step Out From the Old to the New”

IS 5508-19 to 21 (1979): Guide for fishing gear (Parts 19 to 21 in one volume) [TXD 18: Textile Materials for Marine-Fishing Purposes]

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Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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IS : 5508 (Parts XIX to XXI) - 1979

Indian Standard
GUIDE FOR FISHING GEAR



INDIAN STANDARDS INSTITUTION

AMENDMENT NO. 1 SEPTEMBER 1998
TO
IS 5508 (PART 20) : 1979 GUIDE FOR FISHING GEAR
PART 20 DATA SHEET FOR 21.7-m (316 MESH)
BOTTOM FISH TRAWL NET

(*Page 5*) — Substitute '1 Newton = 0.102 kgf (approximately)' for
'1 Newton is equivalent to 0.98 kgf'.

(TX 18)

Reprography Unit, BIS, New Delhi, India

IS : 5508 (Parts XIX to XXI) - 1979

Indian Standard
GUIDE FOR FISHING GEAR

UDC 639·2·081·1 (026) : 677·664·22



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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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INDIAN STANDARD GUIDE FOR FISHING GEAR: PART XIX DATA SHEET FOR 21·6-m (450 MESH) BOTTOM FISH TRAWL NET

NAME OF GEAR: 21·6-m (450 Mesh) Bottom Fish Trawl Net	Vessel — Overall Length m, 23·85	Horse Power: 480-600
TYPE: Two-seam	LOCALITY: South West Coast of India MAIN SPECIES CAUGHT: Perches, Sciaenids, Cat fish, Ray, etc	

PARTICULARS OF WEBBING

WEBBING	A	B	C	D	E	F	G	H	I	J	K	Nylon
Polyethylene Monofilament Twisted/Braided												
Trawl knot												
NIL												
Material												
Type of knot												
Preservation												
Colour												
Twine size (dia.), mm	2	2	2	2	2	2	2	2	2	2	2	3
*Breaking strength, kg (N)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	34(333)	4 double 165(1617)
Stretched mesh, mm	140	140	140	140	140	140	140	140	140	140	140	140
Upper edge, m	9	7	59	32	32	210	40	225	230	237	160	85
Lower edge, m	59	32	75	40	40	193	71	192	190	70	160	85
Depth, m	24½	24½	39½	39½	39½	40½	40½	50½	60½	150½	86	20
Cutting rate Inner Outer	—	All B	All B	All B	—	All B	—	—	—	—	—	—
Selvedge	—	All P	1P 3B	1P 8B	2P 1B	2P 1B	1P 1B	1P 1B	1P 1B	2P 5B	All P	All P
Hanging	$\frac{a}{A} = \frac{3\cdot50}{3\cdot43} \frac{b}{B} = \frac{3\cdot50}{3\cdot43}$	$\frac{c}{C} = \frac{5\cdot60}{5\cdot53} \frac{d}{D} = \frac{5\cdot60}{5\cdot67}$	$\frac{e}{E} = \frac{3\cdot40}{5\cdot67}$	$\frac{f}{F} = \frac{5\cdot60}{5\cdot67}$	$\frac{g}{G} = \frac{4\cdot00}{8\cdot26}$	—	—	—	—	—	—	—
Total quantity, kg						133						

PARTICULARS OF LINES AND ROPE S

LINE/ROPE	a	b	c	d	e	f	g	h	i	j	k	
Combination steel core												
NIL												
Polyethylene												
Material												
Preservation												
Diameter, mm	16	16	16	16	16	16	16	16	16	16	16	12
*Breaking strength, kg (N)												
Length, m	3·50	5·60	3·50	5·60	3·40	5·60	4·00	3·50	1200 (11760)	1200 (11760)	2200 (21560)	1200 (11760) Along bar

PARTICULARS OF OTHER ACCESSORIES						OTHER INFORMATION
ACCESSORIES	FLOATS	SINKERS	SWEEP LINE	OFFER BOARDS		
Number	11	—	—	2	HARD ROPE: 21.6 m FOOT ROPE: 33.4 m	
Material	Plastic	Rubline	Steel wire	Iron & wood oval (single side)	NOTE 1 — IS : 5508 (Part I) - 1969 'Guide for fishing gear; Part I General' forms a preface to this part.	
Shape	Spherical	—	—	—	NOTE 2 — See Fig. 1.	
Diameter, mm	200	—	14	—		
Length, cm	—	3320	7000	—		
Breadth, cm	—	—	—	—		
Static buoyancy, kg	3.30	—	—	460		
Weight in air, kg (each)	0.910	75	—	—	*1 Newton is equivalent to 0.98 kgf.	

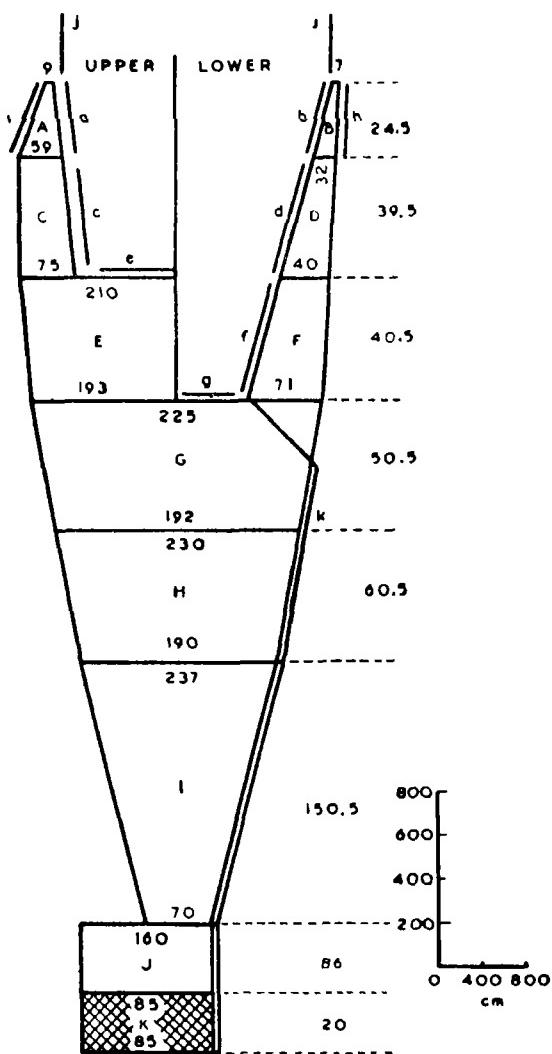


FIG. 1 21.6 m (450 MESH) BOTTOM FISH TRAWL NET

IS : 5508 (Parts XIX to XXI) - 1979

INDIAN STANDARD GUIDE FOR FISHING GEAR : PART XXX DATA SHEET FOR 21·7-m (316 MESH) BOTTOM FISH TRAWL NET	
NAME OF GEAR	21·7-m (316 Mesh) Bottom Fish Trawl Net
LOCALITY	South West Coast of India
TYPE:	Two-seam
Vessel — Overall Length m.	19.81
MAIN SPECIES CAUGHT	Perches, Sciaenids, Cat fish, Rav, etc
Horse Power	200-250

PARTICULARS OF WEBBING

PARTICULARS OF LINES AND ROPES

PARTICULARS OF OTHER ACCESSORIES						OTHER INFORMATION
ACCESSORIES	FLOATS	SINKERS	SWEEP LINE	OTTER BOARD	HEAD ROPE: 21.7 m Foot Rope: 27.4 m	
Number	11	—	2	2	NOTE 1 — IS : 5508 (Part I) - 1969 * Guide for fishing gear; Part I General, forms a pre- face to this part.	
Material	Plastic	Rubline	Steel wire	Iron & wood	NOTE 2 — See Fig. 1.	
Shape	Spherical	—	—	Rectangular		
Diameter, mm	200	—	—	—		
Length, cm	—	2720	12	175		
Breadth, cm	—	—	5000	95		
Static buoyancy, kg	3.3	—	—	—		
Weight in air, kg (each)	0.91	85	—	225		
					*1 Newton is equivalent to 0.98 kgf.	

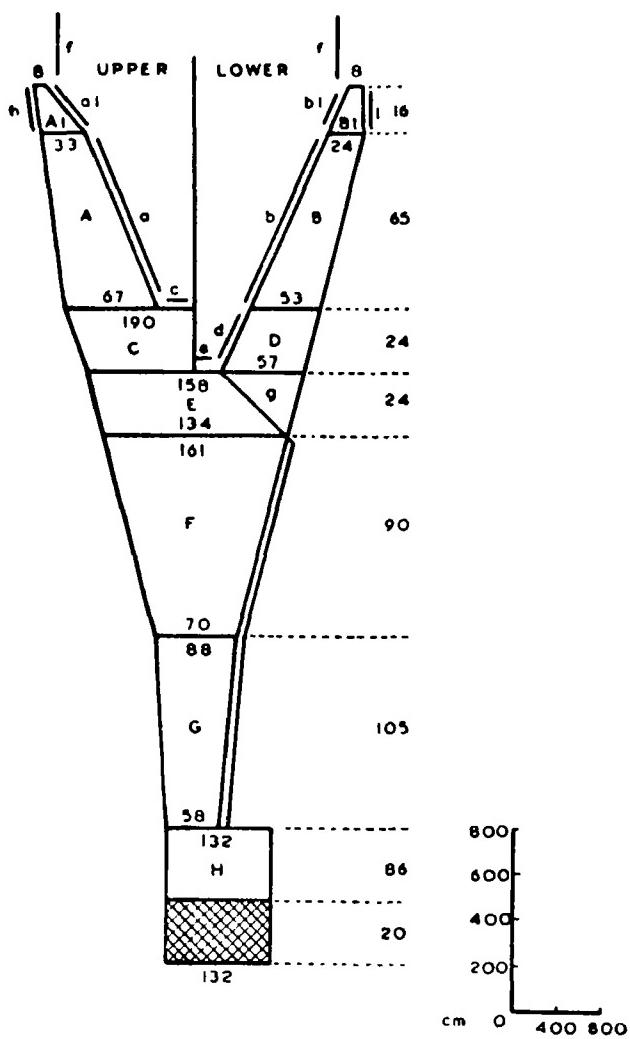


FIG. 1 21.7 m (316 MESH) BOTTOM FISH TRAWL NET

INDIAN STANDARD GUIDE FOR FISHING GEAR: PART XXI DATA SHEET FOR 33-m (600 MESH) BOTTOM FISH TRAWL NET

NAME OF GEAR	33-m (600 Mesh) Bottom Fish Trawl Net	L_{total} — Overall Length m, 23.85 27.30	Horse Power: 480-750
TYPE: Two-seam	LOCALITY South West Coast of India	MATERIALS CAUGHT Perches Sciaards, Cat fish, Ray, etc	

PARTICULARS OF WEBBING

WEBBING	<i>A</i>	<i>A</i> ₁	<i>B</i>	<i>B</i> ₁	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>
Material											
Type of knot											
Preservation											
Colour											
Twine size (dia), mm											
*Breaking strength, kg (N)											
Stretched mesh, mm											
Upper edge, m											
Lower edge, m											
Depth, m											
Cutting rate											
Inner											
Outer											
Selvedge											
Hanging											
Total quantity, kg											

$$\frac{a}{A} = \frac{10.80}{9.00} \left| \frac{a_1}{A_1} \right| = \frac{5.30}{5.40} \left| \frac{b}{B} \right| = \frac{10.8}{9.00} \left| \frac{b_1}{B_1} \right| = \frac{5.30}{5.40} \left| \frac{c}{C} \right| = \frac{0.80}{4.08} \left| \frac{d}{D} \right| = \frac{3.00}{3.03} \left| \frac{e}{E} \right| = \frac{0.70}{3.60}$$

Total quantity, kg
232

PARTICULARS OF LINES AND ROPES

LINE/Rope	<i>a</i>	<i>a</i> ₁	<i>b</i>	<i>b</i> ₁	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>
Material											
Preservation											
Diameter, mm											
*Breaking strength, kg (N)											
Length, m											

Material											
Preservation											
Diameter, mm											
*Breaking strength, kg (N)											
Length, m											

Material											
Preservation											
Diameter, mm											
*Breaking strength, kg (N)											
Length, m											

PARTICULARS OF OTHER ACCESSORIES				OTHER INFORMATION	
ACCESSORIES	FLOATS	SINKERS	SWEEP LINE	OTTER BOARDS	
Number	17	—	2	2	HEAD ROPE: 33.0 m
Material	Plastic	Rubline	Steel wire	Iron & wood	Foot ROPE: 38.9 m
Shape	Spherical	—	—	Oval	NOTE 1 — IS : 5508 (Part I)-1969 "Guide for
Diameter, mm	200	—	14	(single slit)	fishing gear: Part I General" forms preface to
Length, cm	—	3870	7000	—	this part.
Breadth, cm	—	—	—	—	NOTE 2 — See Fig. 1.
Static buoyancy, kg	3.30	—	—	—	
Weight in air, kg (each)	0.91	120	—	—	
					*1 Newton is equivalent to 0.98 kgf.

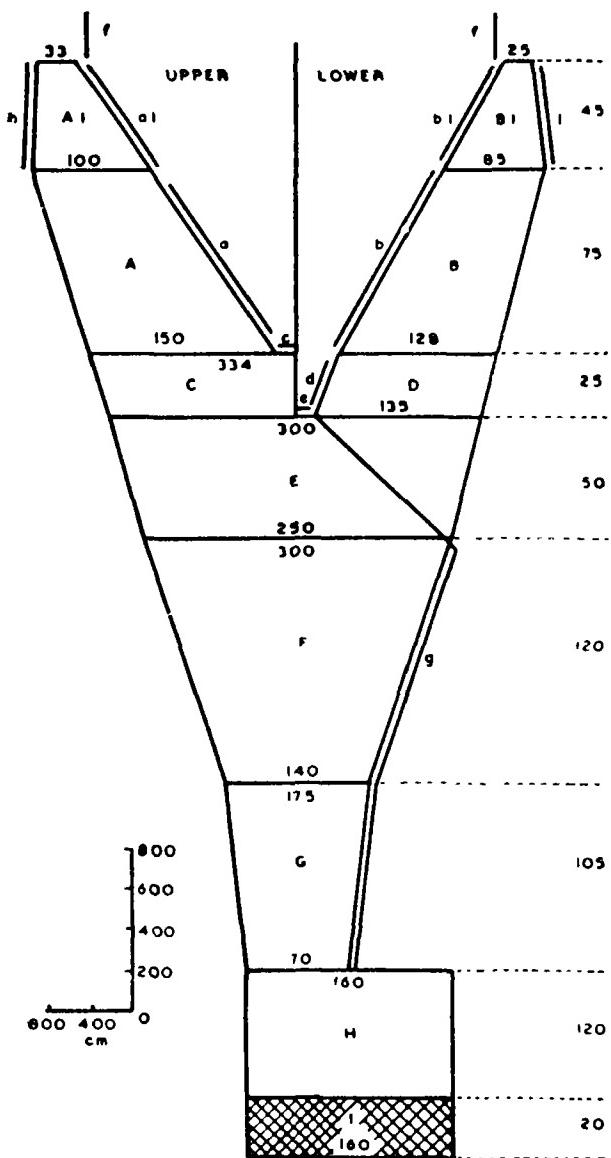


FIG. 1 33-m (600 MESH) BOTTOM FISH TRAWL NET

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INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones : 26 60 21, 27 01 31

Telegrams : Manaksansta

Regional Offices:

Western : Novelty Chambers, Grant Road
Eastern : 5 Chowringhee Approach
Southern : C. I. T. Campus, Adyar

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